## INTERNATIONAL SEARCH REPURI

Inte inal Application No PC 1/ LB2004/052232

A CLASSIS	CATION OF SUBJECT MATTER							
IPC 7	A. CLASSIFICATION OF SUBJECT MATTER  IPC 7 H02M3/335							
According to	International Patent Classification (IPC) or to both national classification	n and IPC						
B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 H02M								
110 /	1102.1		ļ					
Documentati	on searched other than minimum documentation to the extent that suc	n documents are included in the fields sea	arched					
Documentan	on seasoned only many							
Electronic de	to been consulted during the international search (name of data base	and, where practical, search terms used)						
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  EPO-Internal, WPI Data, PAJ, INSPEC								
EPU-1111	ternar, wir bata, rao, moreo							
	TO DE DEL EVANT							
C. DOCUME	C. DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with indication, where appropriate, of the relevant passages							
Calegory	Gradient of document, with materials,							
Υ	US 5 528 481 A (CALDEIRA PAULO ET	· AL)	1-11					
'	18 June 1996 (1996-06-18)							
	column 2, lines 43-64							
	figure 1							
Υ	PATENT ABSTRACTS OF JAPAN		1-11					
	vol. 1998, no. 06, 30 April 1998 (1998-04-30)							
	8 JP 10 052041 A (MATSUSHITA ELECT	TRIC IND						
	CO LTD), 20 February 1998 (1998-02	2–20)						
	abstract							
Y	PATENT ABSTRACTS OF JAPAN		1-11					
'	vol. 2002, no. 07,							
	3 July 2002 (2002-07-03) & JP 2002 084753 A (MATSUSHITA ELI	ECTRIC						
	IND CO LTD), 22 March 2002 (2002-03-22)							
	abstract	•						
<u> </u>		D-14/	ln anney					
Further documents are listed in the continuation of box C.  Patent family members are listed in annex.								
*T* later document published after the international filing date								
or priority date and not in conflict with the application but  'A' document defining the general state of the art which is not considered to be of particular relevance  or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention								
*E* earlier document but published on or after the international  "X* document of particular relevance; the claimed invention  appet be considered to								
*L* document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone to document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone to document which has alone to document which has alone to document with the publication date of another than the document is taken alone.								
citati	which is cited to establish the publication date of arother services and occurrent of particular relevances, the claimed invention claimed invention cannot be considered to involve an inventive step when the cannot be considered to involve an inventive step when the							
i other	other means ments, such combination being obvious to a person skilled in the combinat							
"P" docum	nent published prior to the international filing date but than the priority date claimed	*&* document member of the same paten						
Date of the	e actual completion of the international search	Date of mailing of the International se	arch report					
	29 December 2004	13/01/2005						
Name and	1 mailing address of the ISA	Authorized officer						
	European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk							
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Roider, A						

## INTERNATIONAL SEARCH REPURT

mation on patent family members

Integration No PC 1/1B2004/052232

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5528481	Α	18-06-1996	NONE		
JP 10052041	Α	20-02-1998	JP	3399242 B2	21-04-2003
JP 2002084753	A	22-03-2002	JP US	3480438 B2 2002118551 A1	22-12-2003 29-08-2002